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J1046 U.S. PTO
09/910354
07/20/01

BOX PATENT APPLICATION
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

Express Mail No.: EL674751581US
Attorney Docket No.: 0079571-0073(BU0064)
Date Filed: July 20, 2001

UTILITY PATENT APPLICATION TRANSMITTAL

(for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Dear Sir:

Please find enclosed a patent application and papers as follows for:

Inventor(s):

Given Name (first and middle) Family Name or Surname Residence

Kevin A.	Jarrell	Lincoln, MA
William	Donahue	Quincy, MA

Title of the Invention: MODULAR VECTOR SYSTEMS

A) **APPLICATION ELEMENTS:**

- 1) ☒ **Fee Transmittal Form** (original and duplicate submitted for fee processing)
- 2) ☒ **Applicant Claims Small Entity Status** (see 37 CFR §1.27)
 - a) ☐ Statement Verifying Small Entity Status (optional)
- 3) ☒ **Specification** TOTAL PAGES: 41
-Descriptive Title of the Invention

Express Mail No.: EL674751581US
Date Filed: July 20, 2001

- Priority Claim and Related Applications
- Government Funding
- Background of the Invention
- Summary of the Invention
- Description of the Drawing
- Definitions
- Description of Certain Preferred Embodiments of the Invention
- Examples
- Other Embodiments
- Claim(s)
- Abstract

4) ☒ **Drawing(s)** (35 U.S.C. § 113) **TOTAL SHEETS:** 12

a) ☐ Formal Drawings (if checked)

5) ☒ **Appendix** **TOTAL PAGES:** 33

6) ☒ **Oath or Declaration** **TOTAL PAGES:** 3

a) ☐ Newly Executed (original or copy)

b) ☐ Copy from a prior application (37 C.F.R. § 1.63(d))-for continuation/divisional application

i) ☐ Deletion of inventor(s): Signed Statement deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

c) ☒ Unexecuted

7) ☐ **Application Data Sheet.** See 37 CFR §1.76.

8) ☐ **CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)**

9) ☐ **Nucleotide and/or Amino Acid Sequence Submission** (if applicable, all are necessary)

a) ☐ Computer Readable Form (CRF)

b) ☐ Specification Sequence Listing on:

i) ☐ CD-ROM or CR-R (2 copies); or

ii) ☐ Paper

c) ☐ Statements verifying identity of above copies

B) ACCOMPANYING APPLICATION PARTS:

- 9) ☐ **Assignment Papers** (cover sheet & document(s))
- 10) ☐ **37 C.F.R. § 3.73(b) Statement** (when there is an assignee)
- 11) ☐ **Power of Attorney**
- 12) ☐ **English Translation Document** (if applicable)
- 13) ☐ **Information Disclosure Statement (IDS)/PTO-1449**
- 14) ☐ **Copies of IDS Citations**
- 15) ☐ **Preliminary Amendment**
- 16) ☒ **Return Receipt Postcard (MPEP 503)** (specifically itemized)
- 17) ☐ **Certified Copy of Priority Document(s)** (if foreign priority is claimed)
- 18) ☐ **OTHER:** (if applicable, specified below)

C) FOR CONTINUING APPLICATIONS: (the appropriate box is checked, and certain information is provided below and in a preliminary amendment)

☐ CONTINUATION ☐ DIVISIONAL ☐ CONTINUATION-IN-PART (CIP)

OF PRIOR APPLICATION NO: _____

FILED: _____

EXAMINER: _____

GROUP/ART UNIT: _____

FOR CONTINUATION OR DIVISIONAL APPLICATIONS ONLY: THE ENTIRE DISCLOSURE OF THE PRIOR APPLICATION, FROM WHICH AN OATH OR DECLARATION IS SUPPLIED AS DETAILED ABOVE, IS CONSIDERED A PART OF THE DISCLOSURE OF THE ACCOMPANYING CONTINUATION OR DIVISIONAL APPLICATION AND IS HEREBY INCORPORATED BY REFERENCE.

D.) PRIORITY CLAIM(S):

This application claims the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America listed below:

Application Number	Filing Date	Status

PCT Applications designating the United States:

Application Number	Filing Date	Status
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This application claims the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Provisional Application(s):

60/219,820	July 21, 2000	Pending
Application Number	Filing Date	Status

E.) METHOD OF PAYMENT OF FILING FEES FOR THIS APPLICATION:

X Applicant claims small entity status 37 CFR §1.27

_____ A check is enclosed to cover the filing fees as determined on the fee transmittal enclosed herewith

X The commissioner is hereby authorized to charge filing fees or credit any overpayment to deposit account number 03-1721.

Total filing fee amount \$530

F) CORRESPONDENCE ADDRESS:

X Customer Bar Code Label:



24280

PATENT TRADEMARK OFFICE

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X Correspondence Address:

Brenda Herschbach Jarrell, Ph.D.
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Respectfully Submitted,

Brenda Herschbach Jarrell, Ph.D.
Registered No. 39,223

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Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 530

Complete if Known

Application Number	
Filing Date	July 20, 2001
First Named Inventor	Jarrell et al.
Examiner Name	
Group Art Unit	
Attorney Docket No.	0079571-0074

METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 03-1721

Deposit Account Name

☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	355
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	
SUBTOTAL (1) (\$)			355

2. EXTRA CLAIM FEES

Extra Claims Fee from below Fee Paid

Total Claims 14 - 20** = 9 x 40 = 360

Independent Claims 4 - 3** = 1 x 40 = 40

Multiple Dependent 135 = 135

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 175

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	
Other fee (specify) _____			
*Reduced by Basic Filing Fee Paid			
SUBTOTAL (3) (\$)			

SUBMITTED BY

Name (Print/Type)	Brenda Herschbach Jarrell	Registration No. (Attorney/Agent)	39,223	Complete (if applicable)	
Signature		Telephone	617-248-5000	Date	July 20, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.